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The all-digital transmitter consists of one QAM modulator and counter using the high speed reference clock. However, because ...

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60/410870, filed September 13, 2002 and entitled "HIGH SPEED DATA SERVICE VIA

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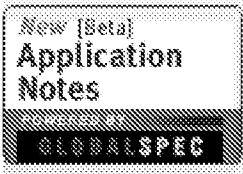
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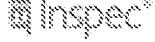
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patno:US20050089117

...used. The output frequency range coverage...up to the high speed reference clock frequency...high Power QAM Modulator"[0010] U...Direct QAM Modulator" (SUMMARY...0013] a high speed reference clock providing...the desired output frequency; [0014] two...

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- 2. [Method and apparatus for fractional RF signal synthesis](#)
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patno:US7084676

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- 3. [Method and apparatus for fractional RF signal synthesis](#)
Harron, Gerald / Kumar, Surinder, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Apr 2005
patno:US20050083085

...accumulator. The output frequency range coverage...up to the high speed reference clock frequency...a desired output frequency comprising: [0011] a high speed reference clock providing...the desired output frequency; [0012] programmable...

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- 4. [Apparatus for fractional RF signal synthesis with phase modulation](#)
Harron, Gerald / Kumar, Surinder, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Apr 2005
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...described is that the output frequency 108 synthesis range...block multiple

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Parent Data

10796416, filed 03/10/2004

Claims Priority from Provisional Application 60513985, filed 10/27/2003

Child Data

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Application Number: 10/796416

Assignments

Filing or 371(c) Date: 03/10/2004 eDan

Effective Date: 03/10/2004

Application Received: 03/10/2004

Pat. Num./Pub. Num: /20050089117

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 85195-502 ADB

Status: 41 /NON FINAL ACTION MAILED

Confirmation Number: 9044

Examiner Number: 80488 / TORRES, JUAN

Group Art Unit: 2611 IFW Madras

Class/Subclass:

375/298.000

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Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO Secrecy Order: NO

Status Date: 11/27/2007

Oral Hearing: NO

Title of Invention: METHOD AND APPARATUS FOR DIGITAL VECTOR QAM MODULATOR

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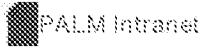
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Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2004-06-25	21	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884

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Inventor Information for 10/796416

Inventor Name	City	State/Country
HARRON, GERALD	MARTENSVILLE	CANADA
KUMAR, SURINDER	VICTORIA	CANADA

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Inventor Name Search Result

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Last Name = HARRON

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
07511069	5065107	150	04/19/1990	PHASE-LOCKER LOOP BANDWIDTH SWITCHING DEMODULATOR FOR SUPPRESSED CARRIER SIGNALS	HARRON, GERALD
10671873	Not Issued	161	09/29/2003	Method and apparatus for reducing peak to average power ratio in QAM multi-channel blocks	HARRON, GERALD
10671879	Not Issued	161	09/29/2003	Method and apparatus for reducing the power consumption of the power amplifier used in a QAM modulator	HARRON, GERALD
10796415	Not Issued	71	03/10/2004	Apparatus for fractional RF signal synthesis with phase modulation	HARRON, GERALD
10796416	Not Issued	41	03/10/2004	Method and apparatus for digital vector QAM modulator	HARRON, GERALD
10796417	7084676	150	03/10/2004	METHOD AND APPARATUS FOR FRACTIONAL RF SIGNAL SYNTHESIS	HARRON, GERALD
10796418	7012477	150	03/10/2004	MODULATION USING DISCRETE AMPLITUDE ADJUSTMENT AND DUAL DIGITAL DELAY LINES	HARRON, GERALD
10796419	6982607	150	03/10/2004	AMPLITUDE AND PHASE MODULATION USING DUAL DIGITAL DELAY VECTORS	HARRON, GERALD
60414393	Not Issued	159	09/30/2002	Method and apparatus for reducing the power consumption of the power amplifier used in a QAM modulator	HARRON, GERALD
60414394	Not Issued	159	09/30/2002	Method and apparatus for reducing peak to average power ration in QAM multi-channel blocks	HARRON, GERALD
60511677	Not Issued	159	10/17/2003	Method and apparatus for fractional RF signal synthesis	HARRON, GERALD
60513984	Not	159	10/27/2003	Method and apparatus for	HARRON, GERALD

	Issued			fractional RF signal synthesis with phase modulation	
60513985	Not Issued	159	10/27/2003	Method and apparatus for digital vector QAM modulator	HARRON, GERALD
60525117	Not Issued	159	11/28/2003	Amplitude & phase modulation using dual digital delay vectors	HARRON, GERALD
60525118	Not Issued	159	11/28/2003	Modulation using discrete amplitude adjustment & dual digital delay lines	HARRON, GERALD
10015885	Not Issued	161	12/17/2001	Printed circuit board radio frequency filter apparatus	HARRON, GERALD D.
09209295	6064285	150	12/11/1998	PRINTED CIRCUIT BOARD HELICAL RESONATOR AND FILTER APPARATUS	HARRON, GERALD D.

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Last Name = KUMAR

First Name = SURINDER

Application#	Patent#	Status	Date Filed	Title	Inventor Name
06216407	Not Issued	161	12/15/1980	LOW-CHOLESTEROL SAUSAGE-LINK ANALOG AND PROCESS THEREFOR	KUMAR, SURINDER
06288091	4376134	250	07/28/1981	LOW-CHOLESTEROL SAUSAGE ANALOG AND PROCESS THEREFOR	KUMAR, SURINDER
06618225	4613509	150	06/07/1984	PROCESS FOR PRODUCING CENTER-FILLED FOOD PRODUCTS	KUMAR, SURINDER
06841256	4808422	150	03/19/1986	CENTER-FILLED FOOD PRODUCTS	KUMAR, SURINDER
07467379	5187803	250	01/18/1990	REGENERATIVE RF BI-DIRECTIONAL AMPLIFIER SYSTEM	KUMAR, SURINDER
07496332	5025452	250	03/20/1990	FULL-DUPLEX, SUB-BAND SPREAD SPECTRUM COMMUNICATIONS SYSTEM	KUMAR, SURINDER
07511069	5065107	150	04/19/1990	PHASE-LOCKER LOOP BANDWIDTH SWITCHING DEMODULATOR FOR SUPPRESSED CARRIER SIGNALS	KUMAR, SURINDER
08008618	Not Issued	161	01/22/1993	REGENERATIVE RF BIDIRECTIONAL AMPLIFIER SYSTEM	KUMAR, SURINDER
08837395	5852389	150	04/17/1997	DIRECT QAM MODULATOR	KUMAR, SURINDER
08843970	6111477	150	04/17/1997	MICROWAVE PHASE SHIFTER INCLUDING A REFLECTIVE PHASE SHIFT STAGE AND A FREQUENCY MULTIPLICATION STAGE	KUMAR, SURINDER
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60414392	Not Issued	159	09/30/2002	Time sliced discrete-time PLL apparatus and method	KUMAR, SURINDER
60414393	Not Issued	159	09/30/2002	Method and apparatus for reducing the power consumption of the power amplifier used in a QAM modulator	KUMAR, SURINDER
60414394	Not Issued	159	09/30/2002	Method and apparatus for reducing peak to average power ration in QAM multi-channel blocks	KUMAR, SURINDER
60511677	Not Issued	159	10/17/2003	Method and apparatus for fractional RF signal synthesis	KUMAR, SURINDER
60513984	Not Issued	159	10/27/2003	Method and apparatus for fractional RF signal synthesis with phase modulation	KUMAR, SURINDER
60513985	Not Issued	159	10/27/2003	Method and apparatus for digital vector QAM modulator	KUMAR, SURINDER
60525117	Not Issued	159	11/28/2003	Amplitude & phase modulation using dual digital delay vectors	KUMAR, SURINDER
60525118	Not Issued	159	11/28/2003	Modulation using discrete amplitude adjustment & dual digital delay lines	KUMAR, SURINDER
60894238	Not Issued	20	03/12/2007	METHOD FOR REDUCING INTER MODULATION DISTORTION PRODUCTS OF A COMBINED CARRIER WAVE USING PHASE ALIGNMENT	KUMAR, SURINDER

OF THE CARRIER COMPONENTS					
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